

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 0 2 APR 2004

		WIPO		
Applicant's or agent's file reference P33765WO/NCB		See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/month			
PCT/GB 03/02934	08.07.2003	09.07.2002		
International Patent Classification (IPC) or bo	th national classification and IPC			
A61B6/04				
Applicant				
ANGLO-EUROPEAN COLLEGE OF	CHIROPRACTIC LTD ET A	· ·		
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 				
2. This REPORT consists of a total of	f 4 sheets, including this cover	sheet.		
		f Manager and the state of the		
been amended and are the t		f the description, claims and/or drawings which have s containing rectifications made before this Authority ctions under the PCT).		
These annexes consist of a total of	f sheets.	,		
3. This report contains indications re	lating to the following items:			
l ⊠ Basis of the opinion				
II ☐ Priority				
III 🛛 Non-establishment of o	ppinion with regard to novelty, in	ventive step and industrial applicability		
IV □ Lack of unity of inventi				
	V 🛮 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
VI	ed			
	nternational application			
│ VIII □ Certain observations o	n the international application			
Date of submission of the demand		completion of this report		
15.01.2004		2004		
Name and mailing address of the internation	al Authoriz	ed Officer		
preliminary examining authority:				
	DO LO PAIGINIAAN /			
European Patent Office - P.B. NL-2280 HV Rijswljk - Pays B Tel. +31 70 340 - 2040 Tx: 31	as Manso	shot, J		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/02934

I.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages	,
	1-16	i e	as originally filed
	Clai	ms, Numbers	
	1-8	ms, Numbers	as originally filed
	1-0		as originally filed
	Dra	wings, Sheets	
	1/8-8	3/8	as originally filed
2.	With lang	regard to the langua uage in which the inte	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of publi	ication of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.3	inslation furnished for the purposes of international preliminary examination (under 3).
3.	With inte	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inter	rnational application in written form.
		filed together with the	e international application in computer readable form.
		furnished subsequer	ntly to this Authority in written form.
		furnished subsequer	ntly to this Authority in computer readable form.
		The statement that the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.
4.	The	amendments have re	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

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5.		This report has been established been considered to go beyond	ed as i the dis	f (some of) t sclosure as t	he amendments had not been made, since they have filed (Rule 70.2(c)).		
		(Any replacement sheet contain report.)	ning si	uch amendn	nents must be referred to under item 1 and annexed to this		
6.	Add	itional observations, if necessar	y :				
Ш.	Nor	n-establishment of opinion wi	th reg	ard to nove	lty, inventive step and industrial applicability		
1.	The obv	questions whether the claimed ious), or to be industrially applic	invent able h	tion appears ave not bee	to be novel, to involve an inventive step (to be non- n examined in respect of:		
		1 the entire international application,					
	⊠	claims Nos. 8					
		because:					
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):					
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		the claims, or said claims Nos. could be formed.	are s	o inadequate	ely supported by the description that no meaningful opinion		
	\boxtimes	no international search report	has be	en establish	ned for the said claims Nos. 8		
2.	 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: 				annot be carried out due to the failure of the nucleotide and ndard provided for in Annex C of the Administrative		
		the written form has not been to	furnish	ed or does	not comply with the Standard.		
		the computer readable form ha	as not	been furnisł	ned or does not comply with the Standard.		
٧.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement							
	Nov	velty (N)	Yes: No:	Claims Claims	1-7		
	Inv	entive step (IS)	Yes: No:	Claims Claims	1-7		
	Ind	ustrial applicability (IA)	Yes: No:	Claims Claims	1-7		
2.	Cita	ations and explanations					

see separate sheet

International application No. PCT/GB03/02934 INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

Section V

Present application relates to measuring and quantifying skeletal joint motion, in particular of the lumbar spinal segments, by using an imaging device (MRI or X-ray). From US-5772595 (and US-5772295) is known a MRI device in which successive positions of the joint (e.g. spine or knee) are imaged and displayed in a kinematic fashion. The joint motion is imposed by a turntable (rotatable disk).

The present invention improves these prior art methods in a number of ways:

- (1) the motion device is not a turntable but consists of a static platform and a laterally movable platform (see Figure 1), which is easier to construct and use than the turntables;
- (2) whereas in the prior art the successive positions are shown in a video sequence, the present invention quantifies movement by tracking and identifying segments in successive positions by template matching.

Although US5099859 and US5090042 use reference points on the bone segments for tracking they do not use template matching and are silent about the way the motion is imposed to the joints. Probably, the motion is done by the patient himself, which the present application seeks to avoid for excluding the influence of muscles.